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APPLICATION NO.	FILIN	FILING DATE 10/06/2000		RST NAMED INVENT	OR	ATTORNEY DOCKET NO. 0675-31	CONFIRMATION NO. 9127
09/680,323	10/0			Kinya Odagiri			
1 31 7 80	7590	05/25/2004			•, .	EXAMINER	
4	ERIC ROBINSON				TAMAI, KARL I		
PMB 955 21010 SOU	тирали ст	.			•	ART UNIT	PAPER NUMBER
	FALLS, VA			1		2834	
						DATE MAILED: 05/25/200	14

Please find below and/or attached an Office communication concerning this application or proceeding.

,,	Applicati n N .	Applicant(s)					
	09/680,323	ODAGIRI ET AL.	·				
Offic Acti n Summary	Examiner	Art Unit					
	Tamai IE Karl	2834					
The MAILING DATE of this communication ap Period f r Reply			ess				
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a repleter of the period for reply is specified above, the maximum statutory period. - Failure to reply within the set or extended period for reply will, by statut Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may bly within the statutory minimum of the will apply and will expire SIX (6) Make cause the application to become	a reply be timely filed hirty (30) days will be considered timely. ONTHS from the mailing date of this comm ABANDONED (35 U.S.C. § 133).	nunication.				
Status			·*				
1) Responsive to communication(s) filed on 06 A	<u>April 2004</u> .						
	s action is non-final.		•				
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is							
closed in accordance with the practice under	Ex parte Quayle, 1935 C	S.D. 11, 453 O.G. 213.					
Disp sition of Claims			•				
4) Claim(s) 1-11 is/are pending in the application							
4a) Of the above claim(s) 8-11 is/are withdraw	vn from consideration.		. 4				
5) Claim(s) is/are allowed.							
6) Claim(s) <u>1, 3/1, 4, 6/3/1, and 7/4</u> is/are rejected	,						
7)⊠−Claim(s)- <u>2,−3/2,−5,−6/3/2,−7/5</u> is/are objected to 8) Claim(s) are subject to restriction and/	•						
Application Papers							
9) The specification is objected to by the Examin	·						
10)⊠ The drawing(s) filed on <u>06 May 2002</u> is/are: a							
Applicant may not request that any objection to the							
Replacement drawing sheet(s) including the corre							
11) Ine oath or declaration is objected to by the E	-xammer, mole the attack	ISO SINCE ACTION OF TOTAL FIRE	. 102.				
Pri rity under 35 U.S.C. § 119	,						
12)⊠ Acknowledgment is made of a claim for foreig a)⊠ All b)□ Some * c)□ None of:	n priority under 35 U.S.C	C. § 119(a)-(d) or (f).					
1. ☐ Certified copies of the priority docume	nts have been received.		•				
2. Certified copies of the priority docume	·	n Application No					
3. Copies of the certified copies of the pri			tage				
application from the International Bure							
* See the attached detailed Office action for a list	st of the certified copies i	not received.	•				
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en la companya da la companya da la companya da manganta da manganta da manganta da manganta da manganta da la Tanggan da manganta da man	nistra in la segui de la la la segui de la segui d La segui de la	్ - గ్రామం ఇంట్లు నియా కాణం మూడ్ కడ్కుకుక్కుడు. ఈ క్రామం క్రామం నియాణం కాట్లు క్రామం క్రామం క్రామం క్రామం క్రామం	en e				
Attachment(s)							
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) 	, 	w Summary (PTO-413) No(s)/Mail Date	<i>:</i>				
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/0 Paper No(s)/Mail Date		of Informal Patent Application (PTO-	152)				

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DETAILED ACTION

Election/Restrictions

1. Newly submitted claims 8-11 are directed to an invention that is independent or distinct from the invention originally claimed for the following reasons: the particulars of the subcombination, that being the blade portions adapted to move air in substantially axial and radial direction is not included in the combination and has separate utility as a ventilation fan or a circulation for circulating air in a motor/generator.

Since applicant has received an action on the merits for the originally presented invention, this invention has been constructively elected by original presentation for prosecution on the merits. Accordingly, claims 8-11 withdrawn from consideration as being directed to a non-elected invention. See 37 CFR 1.142(b) and MPEP § 821.03.

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claim 1 is rejected under 35 U.S.C. 103(a) as being unpatentable over Wang (US 5,583,746) and Horng (6132170). Wang teaches a thin motor characterized by having a heat plate 10 supporting the rotor fan 40 in a central portion thereof and whose contact surface matches the item to be cooled 50. The fan having blades with a gentle arc(see figure 2). The heat plate including the stator and the heat plurality of radiator

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plates are secured together by diagonally opposed bolts 14, 15. Wang does not teach the fan having a two step inverted saucer shape, a raised central portion of the heat plate, a stator coil substrate, and the rotor blades pushing air in the radial direction. Horng teaches a fan motor with a central raised portion to support the stator coil substrate 310 and shaft. Horng (figs 10-12) teaches the rotor blades forcing the air in the radial direction of the Saito teaches a fan with an outer radial step 325 that extends near the heat radiator fins 32 and an inner radial fan 322 that mates around the lid 330. The rotor fan and the two step blades forming an inverted saucer over the stator. It would have been obvious to a person of ordinary skill in the art at the time of the invention to construct the cooling device of Wang with the motor of Saito to improve the cooling effect of the fan.

4. Claims 3/1, 4, 6/3/1, and 7/4 are rejected under 35 U.S.C. 103(a) as being unpatentable over Wang(US 5,583,746) and Horng (US 6132170), in further view of Saito(US 5,979,541). Wang and Horng teach every aspect of the invention except the spacers being heat conducting material, the heat plate being a material with excellent thermal conductivity(precious metal, copper) or partially diamond crystal, and the heat sink being aluminum or copper. Wang teaches spacers 20 between the fins 30, but does not specify the material of the spacers or the fins. Saito teaches the heat plate and fins being copper(col. 5, line 13). It would have been obvious to a person of ordinary skill in the art at the time of the invention to construct the cooling device of Wang and Horng with the spacers being a heat conducting material, with the heat plate

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being copper, and the heat sink to be copper to allow the heat from the CPU to be drawn into the cooling fins 30 and dissipated in the air flow, as taught by Saito.

Allowable Subject Matter

5. Claim 2, 3/2, 5, 6/3/2, and 7/5 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Response to Arguments

6. Applicant's arguments with respect to the pending claim have been considered but are moot in view of the new grounds of rejection.

Conclusion

7. Applicant's amendment necessitated the new grounds of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of

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the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Karl I.E. Tamai whose telephone number is (571) 272 - 2036.

The examiner can be normally contacted on Monday through Friday from 8:00 am to 4:00 pm. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mr. Darren Schuberg, can be reached at (571) 272 - 2044. The facsimile number for the Group is (703) 872 - 9306.

Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Karl I Tamai PRIMARY PATENT EXAMINER May 19, 2004

PRIMARY EXAMINER